1. **UNPACKING INSTRUCTIONS**

   1. Wireless mouse and keyboard
   2. 3 Automatic pipettes
   3. Lactoscan COMBO
   4. Starter kit
   5. Vortex mixer

2. **SAFETY INSTRUCTIONS**

   1. Read this manual carefully and make sure that you understand all the instructions.
   2. For safety purposes, the device is equipped with a grounded power cable.
   3. Connect the electrical network in such a way that the power cable to stay away from the side for access to the electrical network.
   4. In case of damaged device, turn it off and contact the authorized service.
   5. Do not disassemble the device. If you do so, the warranty will not be considered valid.
   6. Use only the authorized accessories (USB flash drive, LACTOCHIP, wireless keyboard and mouse).

3. **ASSEMBLING THE DEVICE**

   Open the box. Carefully take out the contents of the box. Place the machine on a flat level surface.

4. **SWITCHING ON THE SYSTEM**

   1. Plug in the device’s power supply in one of the back panel inlets.
   2. Plug in any USB device which will be needed (keyboard, mouse, etc.) in the USB connector.
   3. Switch on LACTOSCAN COMBO from the ON/OFF button on the back panel.
   4. Power on the tablet.
   5. Wait until the software opens.
   6. If the device is in milk analyser mode, pressing the button marked in red will run the SCC mode.

5. **LACTOSCAN COMBO QUICK START GUIDE**

   1. Prepare a milk sample and load it in a LACTOCHIP.
   2. Choose the type of chip from the drop-down menu.
   3. All the micro fluidic chambers of the LACTOCHIP are selected. If you want to use only 1 or 2, by using buttons A or BC, deselect the chambers which you will not be using in this test.
   4. For a quick analysis, press button 100% and select a test from the drop-down menu.
   5. Complete the value of the dilution’s multiplier in field.

   For milk with FAT:

   - Up to 5%, the value of the multiplier for dilution is 1, as the milk is added directly to the lyophilized dye in the micro tube.
   - Above 5%, the value of the multiplier for dilution is 2, because, for example, in case of measurement of milk with FAT more than 5%, for example buffalo milk, it is necessary the milk sample to be diluted with water in ratio 1:1. Then 100 µl of it is taken and added to the lyophilised dye.

   Adding water prevents difficulties in milk samples entry into the microfluidic chamber.

   6. Choose the type of milk from the drop-down menu.
   7. Enter the name of the supplier or choose from the drop-down menu.
   8. After the information for all the samples is entered, press in order to proceed with the analysis. On the screen a message will be displayed, showing that the cartridge for placing the LACTOCHIP comes out of the door.

   Pressing will revert to the Main screen.

   9. Place LACTOCHIP into the cartridge and press.
6. **ULTRASONIC MILK ANALYZER MODE**

1. While the device is in SCC mode, pressing the button marked in red will run the milk analyser mode.

2. Main menu in mode ultrasonic milk analyzer:

3. Fill the glass with a milk sample and place it on the white holder in the analyser, paying attention the long pipe to be in the milk, while the short one not to be covered with milk.

4. Start a measurement by pressing the calibration name on the screen for the type of milk you are going to measure (if you are measuring cow milk, press the Cow Button)

5. When the measurement is started on the screen appears

Where:
Position 1: The time until the measurement is finished.
Position 2: Temperature of the sample.
Position 3: The calibration channel that is being used.
Position 4: Message about what calibration you are using for measurement.

7. **TURNING OFF THE SYSTEM**

1. Turning off in Somatic cell counter mode:
   - To turn off the program and the operational system of the device, press
   
2. Turning off in Ultrasonic milk analyzer mode:
   - To turn off the tablet, select
   
   File -> Shutdown
   
   To exit the program, select
   
   File -> Exit

8. **OPTIONS AND ACCESSORIES**

   - Bar-code reader (USB)
   - HDMI Display 19"
   - External Standard Printer
   - Wireless keyboard and mouse (USB)
   - Remote display (serial)

9. **MORE INFORMATION**

   You can download the Instruction Manual of the device from our website
   http://lactoscan.com/manuals/COMBO_UM_COMBO_EN.pdf

   You can also find it in the Help Menu of the analyser:

   The Instruction Manual of the Data Base Application can be downloaded from the Help Menu of the analyser.

10. **SUPPORT**

   For any additional information and further question regarding the servicing of the device, contact us at: mainservice@lactoscan.com

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